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L4: Entry 1 of 3

File: USPT

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TITLE: Distributing database differences corresponding to database change events made to a database table located on a server computer

DATE-ISSUED: November 20, 2001

## INVENTOR-INFORMATION:

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US-CL-CURRENT: 707/203; 707/1, 707/201

## ABSTRACT:

A method, computer program product, and system that allows changes made to an original database table found on a server computer to be reflected in client copies of the database table based on intermittent client requests for synchronization. A server makes periodic updates of table differences between a current table receiving database change events and a reference table. Each client copy of a database table and update created by the server has a sequential version number associated therewith. The server will compare the version number of a client copy of a database table with the most recent version number of the table on the server to determine which updates need be applied in order to make the client copy current. Next, the updates will be translated from a generic format into instructions that are specific to the type of database engine being run on the client. Finally, the instructions are transmitted to the client (along with the new version number) so that the client may operate the database engine to apply the instructions for making the database table current with the original managed on the server.

17 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6